Docket No.: FDN-2795 AMENDMENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A mechanically embossed single ply roofing membrane

comprising: a top layer and a bottom layer permanently pressed into a single ply membrane

wherein said bottom layer is mechanically embossed forming an embossment of alternating

ridges and valleys therein over a majority of the surface area of the bottom layer.

2. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 1

wherein said embossment is of pyramidal configuration having a rectangular base.

3. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 1

wherein said embossment is of pyramidal configuration having a hexagonal base.

4. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 1

wherein said embossment is of cone configuration having a circular or ellipsoidal base.

5. (Original) The mechanically embossed single ply roofing membrane of claim 1 wherein

said embossment is of randomly spaced thread configuration running longitudinally in said

single ply roofing membrane.

6. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 1

wherein said embossment is of randomly spaced thread configuration running transversely in

said single ply roofing membrane.

7. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 1

wherein said embossment is of basket-weave configuration running longitudinally, or

transversely in said single ply roofing membrane.

- 2 -

Docket No.: FDN-2795 AMENDMENT

8. (Original) The mechanically embossed single ply roofing membrane of claim 1 wherein said top layer and said bottom layer is of a polyolefin.

- 9. (Original) The mechanically embossed single ply roofing membrane of claim 8 wherein said polyolefin is selected from the group consisting of polyethylene, polypropylene, terpolymers of ethylene, propylene and diene monomers, ethylene-propylene copolymers, ethylene-butane copolymers, ethylene-hexane copolymers, ethylene-octane copolymers, propylene-C₄₋₈ alpha olefin copolymers, and metallocene polyolefins.
- 10. (Currently Amended) A mechanically embossed single ply roofing membrane comprising: a reinforcement scrim sandwiched between a top layer of polyolefin and a bottom layer of polyolefin permanently pressed into a single ply membrane wherein said bottom layer is mechanically embossed forming an embossment of alternating ridges and valleys therein over a majority of the surface area of the bottom layer.
- 11. (Original) The mechanically embossed single ply roofing membrane of claim 10 wherein said reinforcement scrim is of a material selected from the group consisting of fiberglass, polyester, fiberglass reinforced polyester, woven fabrics and non-woven fabrics.
- 12. (Original) The mechanically embossed single ply roofing membrane of claim 10 wherein about 0.5% to 20% w/w of a highly-flowable, functional polyolefin is incorporated into said top layer or said bottom layer to improve adhesion between said reinforcement scrim and said top layer and said bottom layer.
- 13. (Original) The mechanically embossed single ply roofing membrane of claim 12 wherein said highly-flowable, functional polyolefin is selected from the group consisting of maleic anhydride-modified polyolefin, epoxy-modified polyethylene and methacrylate therpolymers thereof.
- 14. (Original) The mechanically embossed single ply roofing membrane of claim 10 having a thickness of about 0.1 to 5 mm (4 to 200 mils).

Docket No.: FDN-2795 AMENDMENT

15. (Original) The mechanically embossed single ply roofing membrane of claim 14 having a thickness of about 0.6 to 2.5 mm (25 to 100 mils).

- 16. (Original) The mechanically embossed single ply roofing membrane of claim 14 wherein said scrim having tenacity of 100 to 3000 denier.
- 17. (Original) The mechanically embossed single ply roofing membrane of claim 14 having a tensile strength of at least 80 pounds force per inch.
- 18. (Original) The mechanically embossed single ply roofing membrane of claim I wherein said embossment having a depth of about 0.01 to 2 mm (0.4 to 80 mils).
- 19. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of pyramidal configuration having a rectangular base.
- 20. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of pyramidal configuration having a hexagonal base.
- 21. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of cone configuration having a circular or ellipsoidal base.
- 22. (Original) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of randomly spaced thread configuration running longitudinally in said single ply roofing membrane.
- 23. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of randomly spaced thread configuration running transversely in said single ply roofing membrane.
- 24. (Withdrawn) The mechanically embossed single ply roofing membrane of claim 10 wherein said embossment is of basket-weave configuration running longitudinally, or transversely in said single ply roofing membrane.

Docket No.: FDN-2795

AMENDMENT

25. (Original) The mechanically embossed single ply roofing membrane of claim 10 wherein

said polyolefin is selected from the group consisting of polyethylene, polypropylene, terpolymers

of ethylene, propylene and diene monomers, ethylene-propylene copolymers, ethylene-butane

copolymers, ethylene-hexane copolymers, ethylene-octane copolymers, propylene-C₄₋₈ alpha

olefin copolymers, and metallocene polyolefins.

26. (Currently Amended) A method of making a mechanically embossed reinforced single

ply roofing membrane comprising:

providing a scrim or reinforcement sheet having top and bottom surfaces;

depositing a coating in a molten state on said top and bottom surfaces of said scrim or

reinforcement sheet;

embossing said bottom surface with a pattern of ridges and valleys over a majority of the

surface area of the bottom layer; and

solidifying the molten coating on the top and bottom surfaces of said scrim or

reinforcement sheet.

27. (Currently Amended) A method of making a mechanically embossed non-reinforced

single ply roofing membrane comprising:

extruding/calendaring extruding and calendering a molten polyolefin sheet

embossing a majority of the bottom surface of said non-reinforced sheet with a pattern of

ridges and valleys; and

solidifying the molten non-reinforced sheet.

28. (Original) The method of claim 26 wherein said coating is a polyolefin.

29. (Currently Amended) The method of claim 27 wherein said sheet is a further comprises a

functional polyolefin.

- 5 -

Application. No.: 10/798,595 Docket No.: FDN-2795

AMENDMENT

30. (Original) A method of installing a mechanically embossed single ply roofing membrane on a roof deck comprising the steps of:

providing the roofing membrane of claim 1 in a roll form;

unrolling a desired length of said roofing membrane at the site of installation;

fully adhering or mechanically attaching the single ply roofing membrane on a roof deck;

and

continuing the process to complete the coverage of the roof deck.

31. (Original) A method of installing a mechanically embossed single ply roofing membrane on a roof deck comprising the steps of:

providing the roofing membrane of claim 10 in a roll form;

unrolling a desired length of said roofing membrane at the site of installation;

fully adhering or mechanically attaching the single ply roofing membrane on a roof deck;

and

continuing the process to complete the coverage of the roof deck.